Date : 2/28/2020 11:59:31 AM
From : "Cyagen" info@cyagenmodel.com
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Subject : White Paper: SARS-CoV-2 Infectivity and Immune Mechanisms

Dear researcher,

An outbreak of **COVID-19 (Coronavirus Disease in 2019)** caused by the novel coronavirus, officially named **SARS-CoV-2**, swept across the world from Wuhan at the end of 2019 - having since brought a huge impact on the lives of people both in China and abroad. In order to effectively address COVID-19 as a public health threat, we need an in-depth understanding of its infection and immune mechanisms. Our experts have investigated the known characteristics of SARS-CoV-2, similarities to related coronaviruses, potential antiviral targets, and lessons learned from the outbreak from a research perspective – which we have assembled to assist in such research efforts.

In the paper, we discuss various research opportunities to combat the COVID-19 outbreak, including: targeted immunotherapy, SC-1 peptide, SARS-CoV-2 S-RBD neutralizing monoclonal antibodies (mAbs), and vaccine development based on human receptor ACE2.

White Paper:
Infectivity and Immune Mechanisms of Coronaviruses & SARS-CoV-2

This free resource covers:

- **The brief introduction to Coronavirus**
- **The Characteristics and Correlations of SARS-CoV, MERS-CoV, and SARS-CoV-2**
- **Methods to defend against COVID-19**
- **What we have learned from the 2019 outbreak**

Accurate animal models are necessary for verifying the pathogenesis and immune mechanisms of the illness to accelerate research across vaccine development, new antiviral drug development, gene therapy, and more. Since the outbreak, the R&D team at Cyagen has made every effort to develop animal models tailored to the global SARS-CoV-2 research initiative. **As our way of contributing to the international epidemic prevention effort, we are opening services on accurate models for coronavirus receptor targets, such as ACE2 and DPP4, effective immediately.**

Feel free to reply directly for more information about how we may help support your research goals.

Kind regards,
Cyagen US

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